

-24-

**METHODS AND APPARATUS FOR
DETECTION AND TREATMENT OF SYNCOPE**

ABSTRACT OF THE DISCLOSURE

5 The present invention relates to methods and apparatus for detection
and treatment of syncope in an implantable medical device, and particularly to
detection of syncope as a function of a predetermined increase in one or
more respiration parameter and drop in heart rate and optionally delivering a
10 pacing therapy in response thereto. The onset of a syncopal episode is
declared when the patient's respiration rate and/or tidal volume and/or minute
ventilation increases by a predetermined increment or threshold and a heart
rate drops below a threshold heart rate drop. The threshold heart rate drop is
preferably established as a function of the change in the respiration
15 parameter.